

Supplementary Table 1: ICD-10 diagnostic codes for primary neurologic diagnoses

ICD-10 Diagnostic Code	ICD-10 Disease Lead Term	Disease category for analysis
G04.XXX	Encephalitis, myelitis and encephalomyelitis	Infection/Inflammation
G40.XXX	Epilepsy and recurrent seizures	Epilepsy
G40.XX1	...with status epilepticus	Status Epilepticus
G43.XXX	Migraine	Migraine
G45.XXX	Transient cerebral ischemic attacks and related syndromes	Stroke/Vascular
I60.XXX	Nontraumatic subarachnoid hemorrhage	Stroke/Vascular
I61.XXX	Nontraumatic intracerebral hemorrhage	Stroke/Vascular
I62.XXX	Other and unspecified nontraumatic intracranial hemorrhage	Stroke/Vascular
I63.XXX	Cerebral infarction	Stroke/Vascular
I64.XXX	Stroke, not specified as hemorrhage or infarction	Stroke/Vascular
I65.XXX	Occlusion and stenosis of precerebral arteries, not resulting in cerebral	Stroke/Vascular

	infarction	
I66.XXX	Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction	Stroke/Vascular
I67.XXX	Other cerebrovascular diseases	Stroke/Vascular
I68.XXX	Cerebrovascular disorders in diseases classified elsewhere	Stroke/Vascular
R56.XXX	Convulsions, not elsewhere classified	Epilepsy
S06.XXX	Intracranial injury	Traumatic Brain Injury
S09.XXX	Other and unspecified injuries of head	Traumatic Brain Injury

Supplementary Table 2: Differences in age, sex, and discharge unit between the Pre-COVID and COVID-SiP cohorts.

	Pre-COVID	COVID-SiP	p value*

	(2017-2019)	(2020)	
	n=24,169	n=3,731	
Age (years), median (IQR)	7 (2-13)	5 (1-12)	<0.01**
Sex			
Female	9,565 (39.6)	1,470 (39.4)	0.83
Male	10,760 (44.5)	1,691 (45.3)	0.35
Unknown/missing	3,844 (16)	570 (15.2)	0.32
Discharge Unit			
Emergency Department	16,736 (69.2)	2,458 (65.8)	<0.01
Inpatient Unit	7,433 (30.7)	1,273 (34.1)	

*Pearson's Chi-squared test, unless indicated otherwise

**Mann-Whitney test, Pre-COVID versus COVID-SiP

Bold: statistically significant at the 0.05 level.

Abbreviation: IQR = interquartile range

Supplementary Table 3: Race and ethnicity comparison between children with a primary neurological discharge diagnosis in the years 2017, 2018 and 2019 (Pre-COVID) and 2020 (COVID-SiP), adjusted for hospital location

	Relative risk	95%	p value*
	ratio	Confidence	

Limits			
Race			
American Indian or Alaska Native vs. White	0.73	0.35 – 1.54	0.42
Asian vs. White	1.06	0.84 – 1.34	0.84
Black vs. White	0.96	0.87 – 1.07	0.56
Native Hawaiian or Other Pacific Islander vs. White	0.37	0.11 – 1.2	0.096
Other vs. White	0.96	0.85 – 1.08	0.54
Unknown/declined vs. White	1.4	1.15 – 1.78	<0.01
Ethnicity			
Hispanic or Latino vs. not-Hispanic or Latino	0.92	0.83 – 1	0.09
Unknown/refused vs. not-Hispanic or Latino	1.45	1.2 – 1.73	<0.01

Bold: statistically significant at the 0.05 level.

The analysis is performed with multinomial logistic regression, adjusted for hospital location.